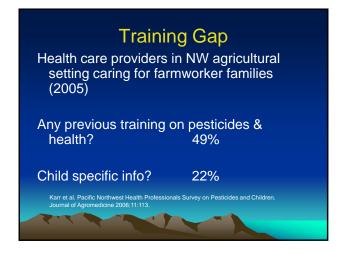
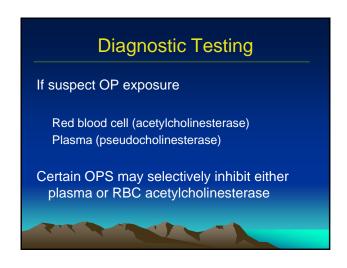


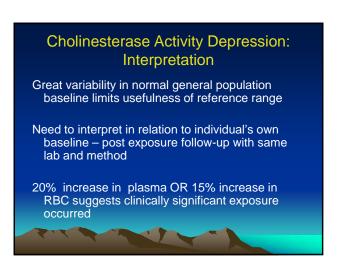
## Under recognition of OP poisoning in children In one 1980s case series, the diagnosis was incorrect in 16 of 20 cases In epidemic OP poisoning in midwest, southeast US, missing and delayed diagnosis for months to years No index of suspicion = no diagnosis Zwiener, Organophosphate and Carbamate Poisoning in Infants and Children, Pediatrics 1988;81:121-126 Rubin C. Assessment of human exposure and human health effects after indoor application of methyl parathion in Lorain County, Ohio, 1995-1996. Environ Health Perspect 2002;110(Suppl 6):1047-51.



## NW PEHSU Web CME Organophosphate Pesticides and Child Health: a primer for health care providers http://depts.washington.edu/opchild/



## Cholinesterase Activity Depression Occurs w/in few minutes or hours Effects on plasma enzyme generally persists for several days to a few weeks. The RBC enzyme activity may take several days to reach its minimum and usually remains depressed longer, sometimes 1-3 months



## Chronic Exposure Toxicity Cholinesterase testing is limited to diagnosis of clinically significant acute poisoning via the cholinergic pathway Neurodevelopmental toxicity may occur via alternative mechanisms Toxicological and epidemiological evidence

